

IN THE CLAIMS:

1.-16. (canceled)

17. (original) A method for assembling an anemometer, comprising:
providing a cantilever beam having a plurality of bond pads on one side thereof;
providing a first substrate and a second substrate, each said substrate being of the same material as said cantilever beam;
etching said first substrate with a plurality of trenches and a sensor cavity;
passivating both of said substrates;
disposing a plurality of electrodes on said second substrate;
positioning said cantilever beam in said sensor cavity;
positioning a plug-in pin in each of said trenches; and
mating said first substrate with said second substrate so that said plug-in pins and said bond pads are in intimate contact with said plurality of electrodes.

18. (original) The method according to claim 17, further comprising:
providing a housing having a lengthwise package cavity therethrough and at least one bore that extends into said package cavity;
positioning said mated substrates into said package cavity; and
inserting a fastener into said bore to secure said mated substrates in said housing.

19. (original) The method according to claim 18, further comprising:
placing a shim along with said mated substrates in said package cavity, such that said shim is between said mated substrates and said fastener.

20. (original) The method according to claim 19, wherein said cantilever beam extends outwardly from one end of said housing.

21. (original) The method according to claim 20, further comprising:
installing said housing into an engine wall such that only said cantilever beam extends beyond said engine wall.

22. (original) The method according to claim 21, further comprising:
connecting diagnostic equipment to said plurality of plug-in pins.